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#8

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RAW SEQUENCE LISTING  
 PATENT APPLICATION: US/09/820,339A

DATE: 01/09/2002  
 TIME: 14:32:12

Input Set : A:\ES.txt  
 Output Set: N:\CRF3\01082002\I820339A.raw

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3 <110> APPLICANT: FUCHS, Sara  
 4 BARCHAN, Dora  
 5 SOUROJON, Miriam  
 7 <120> TITLE OF INVENTION: RECOMBINANT FRAGMENTS OF THE HUMAN ACETYLCHOLINE RECEPTOR  
 AND THEIR USE  
 8 FOR TREATMENT OF MYASTHENIA GRAVIS  
 10 <130> FILE REFERENCE: FUCHS=2A  
 QK 12 <140> CURRENT APPLICATION NUMBER: US/09/820,339A  
 12 <141> CURRENT FILING DATE: 1999-11-08  
 12 <150> PRIOR APPLICATION NUMBER: 09/423,398  
 13 <151> PRIOR FILING DATE: 1999-11-08  
 15 <150> PRIOR APPLICATION NUMBER: PCT/IL98/00211  
 16 <151> PRIOR FILING DATE: 1998-05-06  
 18 <160> NUMBER OF SEQ ID NOS: 32  
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 23 <211> LENGTH: 630  
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 25 <213> ORGANISM: Homo sapiens  
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 32 atcaaatgtgg atgaagtaaa tcagatcgta acaaccaatg tgcgtctgaa acagcaatgg 180  
 34 gtggattaca acctaaaatg gaatccagat gactatggcg gtgtgaaaaa aattcacatt 240  
 36 ccttcagaaa agatctggcg cccagacctt gttctctata acgatgcaga tggtgacttt 300  
 38 gctattgtca agttcaccaa agtgctctg cagtagactg gccacatcac gtggacacct 360  
 40 ccagccatct ttaaaagcta ctgtgagatc atcgtcaccc actttccctt tgatgaacag 420  
 42 aactgcagca tgaagctggg cacctggacc tacgacggct ctgtcggtgc catcaacccg 480  
 44 gaaagcggacc agccagaccc gagcaacttc atggagagcg gggagtgggt gatcaaggag 540  
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 48 atcacctacc acttcgtcat gcagcgcctg 630  
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 62 20 25 30  
 64 Ala Gly Leu Gln Leu Ile Gln Leu Ile Asn Val Asp Glu Val Asn Gln  
 65 35 40 45  
 67 Ile Val Thr Thr Asn Val Arg Leu Lys Gln Gln Trp Val Asp Tyr Asn  
 68 50 55 60  
 70 Leu Lys Trp Asn Pro Asp Asp Tyr Gly Gly Val Lys Lys Ile His Ile  
 71 65 70 75 80  
 73 Pro Ser Glu Lys Ile Trp Arg Pro Asp Leu Val Leu Tyr Asn Asn Ala  
 74 85 90 95

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79	Thr	Gly	His	Ile	Thr	Trp	Thr	Pro	Pro	Ala	Ile	Phe	Lys	Ser	Tyr	Cys
80				115				120					125			
82	Glu	Ile	Ile	Val	Thr	His	Phe	Pro	Phe	Asp	Glu	Gln	Asn	Cys	Ser	Met
83				130			135					140				
85	Lys	Leu	Gly	Thr	Trp	Thr	Tyr	Asp	Gly	Ser	Val	Val	Ala	Ile	Asn	Pro
86	145			150				155					160			
88	Glu	Ser	Asp	Gln	Pro	Asp	Leu	Ser	Asn	Phe	Met	Glu	Ser	Gly	Glu	Trp
89				165				170					175			
91	Val	Ile	Lys	Glu	Ser	Arg	Gly	Trp	Lys	His	Ser	Val	Thr	Tyr	Ser	Cys
92				180				185					190			
94	Cys	Pro	Asp	Thr	Pro	Tyr	Leu	Asp	Ile	Thr	Tyr	His	Phe	Val	Met	Gln
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134	atcaatgtgg	atgaagtaaa	tca	gat	cg	aca	acc	at	g	tgc	tct	gaa	ac	180		
136	atggtagatc	tgccacgccc	cag	ctgc	tg	actt	ttgg	ag	ttc	ctt	ttt	tt	tt	240		
138	caggatgagc	aatgggtgga	tt	aca	ac	aa	at	g	at	g	act	tg	tg	300		
140	aaaaaaaattc	acattcc	ttt	aaa	aa	aa	at	ca	at	at	ttt	ttt	ttt	360		
142	gcagatggtg	actttgttat	tgt	ca	at	ccaa	at	gt	tc	ct	tc	ca	ct	420		
144	atcacgtgga	cac	ctt	cc	ag	ctt	ttt	at	tt	tt	tt	tt	tt	480		
146	ccctttgtat	aa	c	ac	aa	at	cc	at	tt	tt	tt	tt	tt	540		
148	gtggccatca	acc	ccg	aa	ag	cg	acc	ag	ca	act	tc	at	tg	600		
150	tgggtgatca	agg	at	cc	cc	gg	ct	gg	aa	g	tt	tt	cc	660		
152	accccttacc	tgg	ac	at	cc	tt	cc	tt	cc	tt	cc	tt	cc	705		

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 165 Ser Val Val Arg Pro Val Glu Asp His Arg Gln Val Val Glu Val Thr  
 166 20 25 30  
 168 Ala Gly Leu Gln Leu Ile Gln Leu Ile Asn Val Asp Glu Val Asn Gln  
 169 35 40 45  
 171 Ile Val Thr Thr Asn Val Arg Leu Lys Gln Gly Asp Met Val Asp Leu  
 172 50 55 60  
 174 Pro Arg Pro Ser Cys Val Thr Leu Gly Val Pro Leu Phe Ser His Leu  
 175 65 70 75 80  
 177 Gln Asp Glu Gln Trp Val Asp Tyr Asn Leu Lys Trp Asn Pro Asp Asp  
 178 85 90 95  
 180 Tyr Gly Gly Val Lys Lys Ile His Ile Pro Ser Glu Lys Ile Trp Arg  
 181 100 105 110  
 183 Pro Asp Leu Val Leu Tyr Asn Asn Ala Asp Gly Asp Phe Ala Ile Val  
 184 115 120 125  
 186 Lys Phe Thr Lys Val Leu Leu Gln Tyr Thr Gly His Ile Thr Trp Thr  
 187 130 135 140  
 189 Pro Pro Ala Ile Phe Lys Ser Tyr Cys Glu Ile Ile Val Thr His Phe  
 190 145 150 155 160  
 192 Pro Phe Asp Glu Gln Asn Cys Ser Met Lys Leu Gly Thr Trp Thr Tyr  
 193 165 170 175  
 195 Asp Gly Ser Val Val Ala Ile Asn Pro Glu Ser Asp Gln Pro Asp Leu  
 196 180 185 190  
 198 Ser Asn Phe Met Glu Ser Gly Glu Trp Val Ile Lys Glu Ser Arg Gly  
 199 195 200 205  
 201 Trp Lys His Ser Val Thr Tyr Ser Cys Cys Pro Asp Thr Pro Tyr Leu  
 202 210 215 220  
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 217 atcaatgtgg atgaagtaaa tcagatcgta acaaccaatg tgctgtgaa acagggtgac 180  
 219 atggtagatc tgccacgccc cagctgcgtg actttggag ttcccttggtt ttctcatctg 240  
 221 caggatgagc aatgggtgga ttacaaccta aaatggaatc cagatgacta tggcggtgtg 300  
 223 aaaaaaattc acattccttc agaaaagatc tggcgccag accttggtct ctataacgat 360  
 225 gcagatggtg actttgctat tgtcaagtgc accaaagtgc tcctgcagta cactggccac 420  
 227 atcacgtgga cacctccagc catcttaaa agctactgtg agatcatcgt caccacttt 480  
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231	gtggccatca	acccgaaag	cgaccagcca	gacctgagca	acttcatgga	gagcggggag	600										
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248	Ser	Val	Val	Arg	Pro	Val	Glu	Asp	His	Arg	Gln	Val	Val	Glu	Val	Thr	
249							20			25					30		
251	Ala	Gly	Leu	Gln	Leu	Ile	Gln	Leu	Ile	Asn	Val	Asp	Glu	Val	Asn	Gln	
252							35			40					45		
254	Ile	Val	Thr	Thr	Asn	Val	Arg	Leu	Lys	Gln	Gly	Asp	Met	Val	Asp	Leu	
255							50			55					60		
257	Pro	Arg	Pro	Ser	Cys	Val	Thr	Leu	Gly	Val	Pro	Leu	Phe	Ser	His	Leu	
258							65			70					75		80
260	Gln	Asp	Glu	Gln	Trp	Val	Asp	Tyr	Asn	Leu	Lys	Trp	Asn	Pro	Asp	Asp	
261							85			90					95		
263	Tyr	Gly	Gly	Val	Lys	Lys	Ile	His	Ile	Pro	Ser	Glu	Lys	Ile	Trp	Arg	
264							100			105					110		
266	Pro	Asp	Leu	Val	Leu	Tyr	Asn	Asn	Ala	Asp	Gly	Asp	Phe	Ala	Ile	Val	
267							115			120					125		
269	Lys	Phe	Thr	Lys	Val	Leu	Leu	Gln	Tyr	Thr	Gly	His	Ile	Thr	Trp	Thr	
270							130			135					140		
272	Pro	Pro	Ala	Ile	Phe	Lys	Ser	Tyr	Cys	Glu	Ile	Ile	Val	Thr	His	Phe	
273							145			150					155		160
275	Pro	Phe	Asp	Glu	Gln	Asn	Cys	Ser	Met	Lys	Leu	Gly	Thr	Trp	Thr	Tyr	
276							165			170					175		
278	Asp	Gly	Ser	Val	Val	Ala	Ile	Asn	Pro	Glu	Ser	Asp	Gln	Pro	Asp	Leu	
279							180			185					190		
281	Ser	Asn	Phe	Met	Glu	Ser	Gly	Glu	Trp	Val	Ile	Lys	Glu	Ser	Arg	Gly	
282							195			200					205		
284	Trp	Lys	His	Ser	Val	Thr	Tyr	Ser	Cys	Cys	Pro	Asp	Thr	Pro	Tyr	Leu	
285							210			215					220		
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VERIFICATION SUMMARY  
PATENT APPLICATION: US/09/820,339A

DATE: 01/09/2002  
TIME: 14:32:13

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L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
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